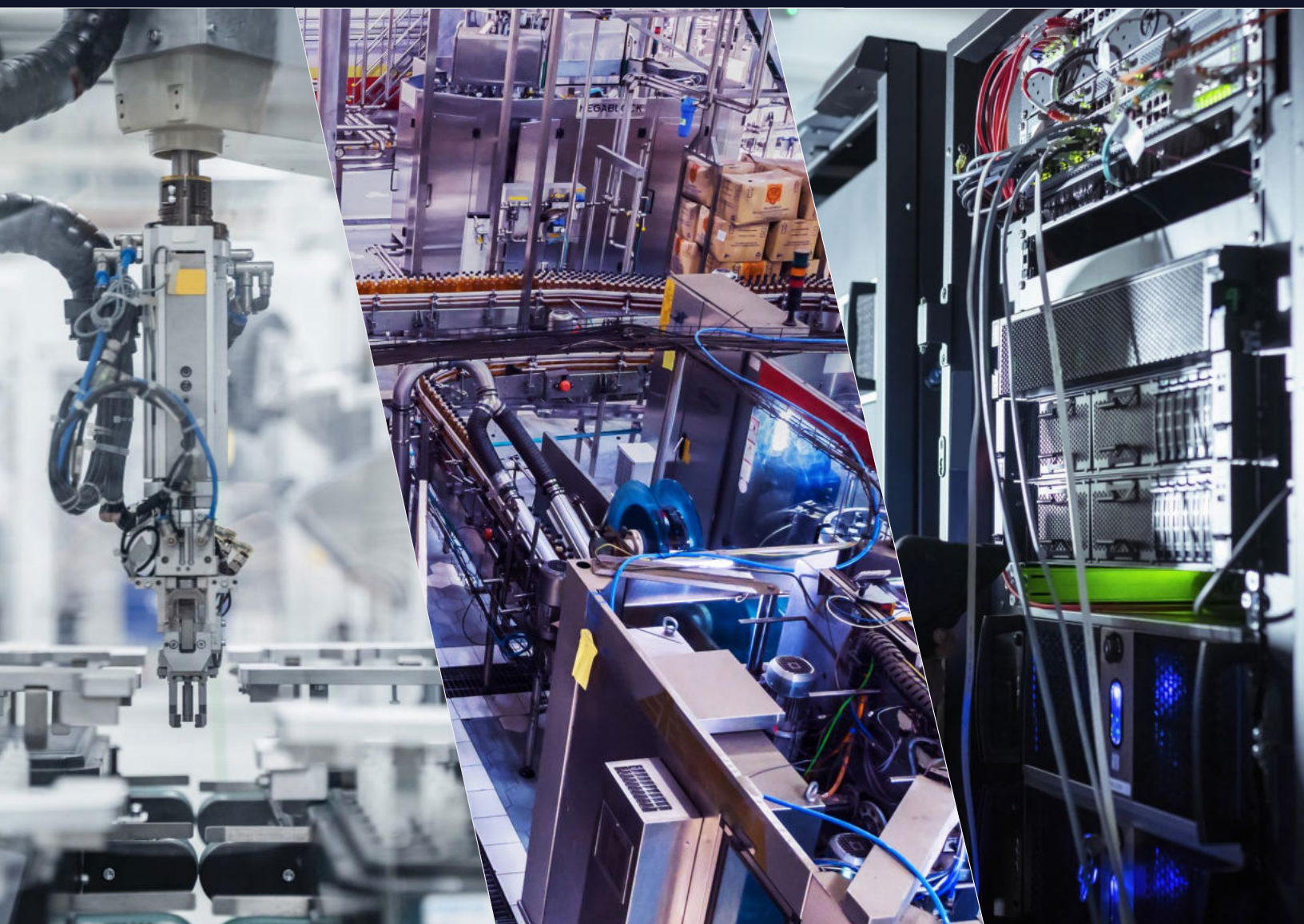


2023

# NEW PRODUCT INTRODUCTIONS ANNUAL OVERVIEW

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*creating connections for life*

**molex**



**molex**

## Discover Molex

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We make a connected world possible by working together as a global team to enable technology that transforms the future and improves people's lives. Our customers rely on Molex to deliver breakthrough connectivity at scale – we help them master change and create the most important advances through powerful innovation, engineering excellence, and world-class manufacturing capabilities.

### CONNECT WITH US







## New Product Introductions

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In this overview you will find a summary of each NPI package released in 2023, including new additions to the Molex portfolio as well as extensions to established product ranges. The 'Learn More' button on each product page will take you to resources on [molex.com](https://molex.com), including datasheets, videos and more.

### USEFUL LINKS

#### Industry Pages

Molex is driving innovation across a wide range of industries – view our industry pages to learn more about Molex's solutions for markets such as telecom, automotive, consumer, medical and more.

#### Trends & Insights

Get the latest insights on market shifts, trends and disruptive technologies that drive connectivity innovation in critical industry categories.

### DISTRIBUTOR LINKS

#### Learning Locker

Learn more about our latest NPI releases with short online training videos, as well as range of Sales Tools presentations, videos and more!

#### MyMolex

Access our new self-service platform to find pricing information, a product catalog and shopping cart, as well as a helpful, real-time chat feature.

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NEW PRODUCT INTRODUCTION:

# Program Categorization

Over the last decade, Molex has launched and nurtured a New Product Introduction program that is now considered best-in-class by those it was created for – our distribution partners.

Each year we have released an average of 50 NPIs to the channel. From innovative launches that the market had never seen, to continuing to strengthen our core ranges through necessary expansions, our commitment to developing a pipeline of new and exciting products has never faltered.

After reflecting on our success so far and taking on valuable feedback from our network, Molex launched an enhanced version of our historic program with the aim of better communicating each product launch to our distributors.

## Introducing our categories

The categorization of our NPIs is an opportunity to strengthen our existing program and provide further value to our distributors. At Molex, we feel that this improvement to our program will better equip our distributors to understand, onboard, and sell our new products – with the aim of driving profitable growth for all.

### INNOVATION

*New to Molex, or new to market*

### ENHANCEMENT

*New variations of an existing product range*

### EXTENSION

*Additions to complete an existing range*



[View our video from Fred Bell, VP Global Distribution, to learn more about the categorization of our New Product Introductions.](#)



## What can you expect?

- Detailed explanation on the type of NPI being launched
- Product presentations for each 'innovation' release
- Complete data sets including UoM, packaging specifications and product dimensions

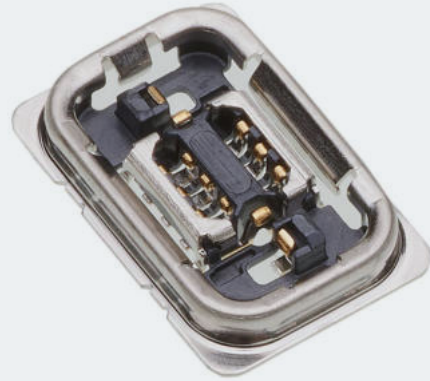
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## INNOVATION

# 5G25 Series, 5GmmWave RF Flex-to-Board Connectors

**SERIES**  
218876, 218877



The 5G25 RF Connector has a dedicated RF structure that supports up to 25 GHz for superior SI performance, a full-shielding design to reduce electromagnetic interference (EMI), and shielded parts around the perimeter and grounding cover to protect signal terminals and ensure robustness. Furthermore, wider alignment allows for proper mating position and helps prevent any mis-operation.

This new connector is ideal for use in consumer applications where designers want to leverage industry-leading 5G connectivity technologies, as well as defense, industrial and medical device applications where high signal integrity (SI) performance is required for mission-critical 5G applications.

## FEATURES

Unique contact design of RF terminal

Superior shield design enables industry-leading  
SI performance up to 25 GHz

Wide alignment tolerance of 0.30mm pitch / 0.30mm  
span facilitates proper alignment and mating

## MARKETS



Industrial



Consumer



Medical  
Devices



Defense

[LEARN MORE](#)





## INNOVATION

# PowerWize BMI (Blind-Mate Interface) High-Current Panel-to-Board/ Busbar Interconnects

### SERIES

215510, 215511, 215513, 204608



PowerWize BMI High-Current Panel-to-Board/Busbar Interconnects incorporate Molex's COEUR socket technology, which helps ensure low contact resistance at the mating interface to minimize heat generation and enable high current-carrying capacity.

Suitable for diverse range of applications such as data center, alternative energy and EV charging stations, the blind-mating design helps ensure accurate mating in hard-to-reach and visually obscured spaces.

## FEATURES

Mechanically keyed to prevent attachment of cable assemblies to the panel upside down

Blind-mating guideposts

Low Contact Resistance

Optimal current-carrying capacity with multiple contact beams

## MARKETS



Electric Vehicle  
Charging Stations



Telecommunications  
/ Networking



Data Center  
Solutions

LEARN MORE



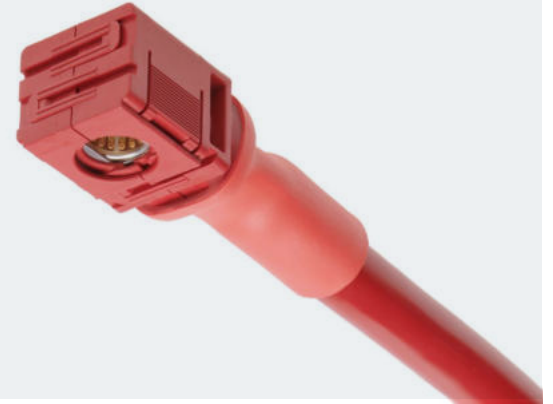


## INNOVATION

# SW1 High-Current Wire-to-Board and Busbar Interconnects

### SERIES

218371, 218372, 218373,  
218335, 218336, 216939



Featuring innovative COEUR socket technology in three sizes: 6.00mm (120.0A), 8.00mm (185.0A) and 11.00mm (300.0A), SW1 Wire-to-Board/Wire-to-Busbar Interconnects offer power efficiency, reliability and design flexibility. With minimal heat generation and low contact resistance, this product delivers high-current carrying capacity up to 300A.

Their compact design is 35% lower in height and 30% shorter than competitive products, while the user-friendly positive-locking design ensures secure mating during system integration. With options for attaching pins to different substrates and a high-quality 8-sided crimp profile, SW1 interconnects provide design flexibility and reliability.

## FEATURES

Low contact resistance

Compact design

User-friendly positive locking

Positive locking with 360° cable assembly rotation

Color coded receptacle housings

Reliable crimp geometry with high-quality 8-sided crimp profile

Multiple contact beams with optimal current-carrying capacity

## MARKETS



Industrial  
Automation



Energy Storage

LEARN MORE



## INNOVATION

# High-Frequency Precision Test Adaptors

### SERIES

73164, 73386, 73157, 73387, 73252



In test and measurement applications, finding the right adapter for your needs can be challenging. The new High-Frequency Precision Test Adaptors from Molex provide an off-the-shelf solution, with a broad range of high-frequency within series and between series adapters. Interfaces include 2.92mm (40 GHz), 2.4mm (50 GHz), 1.85mm (67 GHz) and 1.0mm (110 GHz). These tested and proven high-frequency adapters deliver outstanding performance to ensure accurate, reliable results.

## FEATURES

Intermateability

Within and between series available

Precision machines interfaces

Excellent electrical performance

Wide frequency range

## MARKETS



Aerospace



Telecommunications  
/Networking



Internet of  
Things (IoT)

LEARN MORE



## INNOVATION

# Brad M12 L-Code Connector System

### SERIES

120500, 120501, 120502, 120504, 120505



Introducing the Brad M12 Power L-Code Connector System – the ultimate solution for Industry 4.0 electric propulsion needs. Meeting PROFIBUS and PROFINET International (PI) standards for PROFINET systems, this compact yet powerful connector delivers up to four times the power of standard M12 connectors, making it ideal for high-power applications. With an IP67-sealed interface, this connector enhances protection against dust and water ingress, while the Weld-Slag and Oil-Resistant (WSOR) cables provide additional protection against even the harshest environments, ensuring durability and reliability for a connection that lasts.

The connector is designed to establish an open industry connector standard, allowing for compatibility with a wide array of platforms and manufacturers. This makes it a versatile and effective solution across multiple applications and industries.

### FEATURES

IP67-sealed interface

63V AC/DC; up to 16.0A current per pin

Pins enclosed in contact carrier

L-Code mating interface

Products developed according to IEC Standard 61076-2-111

PI Selected

### MARKETS



Industrial  
Automation

[LEARN MORE](#)



## INNOVATION

# Compactus Sealed Hybrid Connectors

### SERIES

503131, 560132, 560134, 560138, 560144,  
560145, 560151, 560152, 560153, 560154,  
560155, 560189, 560190, 560191



Compactus Sealed Hybrid Connectors combine excellent electrical performance, rugged reliability and advancements in miniaturization to provide a space-saving and flexible connection solution suited to a variety of applications. Offering a 20% space saving compared with 0.64mm terminals, the Compactus 0.5mm terminals are robust, high-density, automotive-grade, IP69K-rated connectors that permit manufacturers to fit more power and signal transmission ability into a small space.

### FEATURES

Heat resistance, sealing property and vibration resistance

Left and right flexible cable outlet directions

Three terminal sizes available in one connector (0.50, 1.00 and 2.80mm)

Short and long wire dress cover options

Three header sizes (128, 146 and 186 circuits) and five receptacle sizes (48, 66, 72, 80 and 114 circuits) available

0.50mm terminal system

Header connector size comparison: 0.50 vs. 0.64mm

Designed for thin wires

### MARKETS



Commercial  
Vehicle



Automotive

[LEARN MORE](#)





## INNOVATION

# RFID Asset Tracking Solutions

### SERIES

13509, 13510, 13511, 13512, 13513, 13514, 13515, 13516, 13517, 13518, 13519, 13520, 13521, 13522, 13523, 13524, 13525, 13526, 13527, 13528



Molex's Asset Tracking Solutions offer RFID tags in a variety of frequencies and designs to enable cost-effective, versatile, efficient and accurate monitoring of valuable inventory and assets.

#### High Frequency

Molex high-frequency (HF) RFID solutions offer versatile identification capabilities for asset tracking. HF RFID tags are available in multiple sizes and configurations, including cable ties and labels, for use in a variety of industries, applications and environments.

#### Ultra-High Frequency (Global)

Molex offers global standard ultra-high frequency (UHF) RFID solutions with a frequency range from 860 to 960 MHz. UHF RFID tags have a much longer read range than HF tags and are available in multiple package sizes, which accommodates a wide range of markets and applications.

#### Ultra High Frequency (USA)

Molex offers USA standard ultra-high frequency (UHF) RFID solutions with a frequency range from 902 to 928 MHz. UHF (US) RFID tags are available in multiple package sizes, which accommodates a wide range of markets and applications.

## FEATURES

53 X 44 RAIN RFID TAG FOR METAL SURFACES:  
IP68 Rating

Tags in Multiple Package Sizes

FLEXIBLE RFID TAG FOR NON-METAL SURFACES:  
Global Frequency

Customizable Appearance

## MARKETS



Industrial



Automotive



Healthcare

LEARN MORE



## INNOVATION

# Single-Pair Ethernet (SPE) T1 Industrial Connectors and Cable Assemblies

SERIES  
220957



Industrial SPE Connectors and Cable Assemblies afford the standard T1 industrial interface and single-twisted-pair cabling to make Ethernet connectivity easy and affordable, support miniaturization and enable the transmission of data from the cloud to devices and sensors.

## FEATURES

Preamsembled cable assemblies available

Cable assemblies use only 1 twisted-pair with a gauge as small as 26 AWG and 22 AWG

Through-hole jack with two contacts plus shielding

Halogen-free, oil-resistant, flame-retardant off-the-shelf cable assemblies

End-to-End TCP/IP-Based Communication

Cable assemblies enable the transmission of data using only two wires and the simultaneous power supply for terminals via PoDL up to 50W

Plug, jack and cable assembly with IP20

## MARKETS



Internet  
of Things



Industrial  
Automation



Commercial  
Vehicle

LEARN MORE



## ENHANCEMENT

# Ultra-Fit Power Connectors, Wire-to-Wire

## SERIES

216945, 216946, 202569



With its unique keying design, Ultra-Fit Power Connectors offer up to 14.0A with a 3.50mm pitch to deliver high current capacity for wire-to-board and now wire-to-wire applications using the same amount of space that lower-current connectors occupy.

## FEATURES

Multiple mechanical keying and color-coded options

17% reduction in pitch over similar power connectors

Optional TPA (Terminal Position Assurance) retainer

Ultra low mating force terminal

Positive-lock housing with anti-snag design

Fully isolated terminals

Terminal interface with six independent points of contact (split-box terminal design)

## MARKETS



Medical



Consumer /  
Home Appliance



Transportation



Industrial



Telecommunications  
/Networking



Aerospace  
and Defense

[LEARN MORE](#)



## ENHANCEMENT

# Squba Weather Caps

**SERIES**  
220423, 220424



Choosing the right products for extreme environments can be arduous. The new Squba Weather Caps are designed to protect seals from damage during shipping, handling and use.

The Squba 1.80 and 3.60mm-Pitch Sealed Wire-to-Wire Connector Systems from Molex are made for harsh environments and feature an IP68-seal grade that has been approved by UL. Offering reliable connections and high-quality performance, they are ideal for space constrained applications.

## FEATURES

Mated housings

Protected, low-profile positive latch

Weather caps

Sealed components with proven performance

Clean-body terminals

Voided circuit options (1.80mm-pitch version)

## MARKETS



Consumer



Commercial  
Vehicles



Industrial

[LEARN MORE](#)





## ENHANCEMENT

# MHF® 4L LK and MHF® LK Cable Assemblies

SERIES  
73230



By combining Molex connector interfaces with MHF® locking plugs, Molex has introduced the MHF® 4L LK and MHF® I LK Cable Assemblies, available in multiple standard configurations. The robust locking system adds reliability and security for rugged RF applications that are continuously subjected to shock and vibration. The opportunities for this product are endless, ranging from consumer and MedTech, to commercial vehicles, aviation and beyond.

## FEATURES

Standard, off-the-shelf availability  
Speeds up time to market and eliminates tooling

MHF® connectors feature patented locking system  
Makes the cable assembly ideal for applications with continuous shock or vibrations where reliable connectivity is essential

Standard MHF® receptacle  
The locking cable assemblies mate with standard MHF® receptacles

## MARKETS



Commercial  
Aviation



Commercial  
Vehicles



Consumer



MedTech



Data and  
Computing



Mobile  
Devices



Telecommunications/  
Networkings

LEARN MORE



## ENHANCEMENT

# Easy-On FFC/FPC Connectors FD4P Series

SERIES  
220363



High-density 0.40mm pitch FD4P series Easy-On FFC/FPC connectors offer a low-profile height of 2.00mm that can cover up to 120 circuits, providing high contact reliability and a high retention force, making them a versatile, space-saving solution for harsh environments.

## FEATURES

High-density pin count

Space savings

Independent double-beam contact

Mating indication feature that gives operators visibility

## MARKETS



IT Infrastructure  
Solutions



Connected  
Mobility Solutions



Home  
Appliance

LEARN MORE

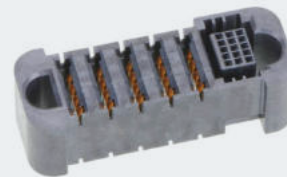


## ENHANCEMENT

# EXTreme Guardian HD Power Connectors

## SERIES

219562, 219563, 219564



The new additions to the range of EXTreme Guardian HD Power Connectors offer configurable hybrid power/signal solutions with increased power in limited footprint spaces. These connectors provide more current in a low profile package for required space savings and design flexibility.

EXTreme Guardian HD Power Connectors are board-to-board and wire-to-board power connectors that provide dense high-current capacity in a low-profile package for complete design flexibility. New additions to the product line include power-only and power/signal hybrid connectors in various configurations. The design packs high power (up to 130.0A per blade) into a small form factor (5.15 and 5.78mm pitches available) to meet high-current needs in space-constrained PCB applications. Unitized housings also permit flexible layouts for power circuits, terminal lengths, signal lengths and guide options.

## FEATURES

- Provides one of the greatest current density solutions
- Saves PCB space and allows for bias of 2.00mm in any direction
- Provides greater margin for customers' temperature designs
- Reduces PCB footprint compared to legacy power products
- Supports AC or DC high-voltage applications with the lowest feasible voltage drop and irreversible dissipative power losses

- Allows customers to configure their PCB to run AC or DC current with traces that follow their PCB layout; can use the circuits in parallel or as individual circuits

- Provides low interface resistance

- Offers flexible manufacturing options

## MARKETS



Telecommunications/  
Networking



Automotive



Consumer



Medical



Industrial

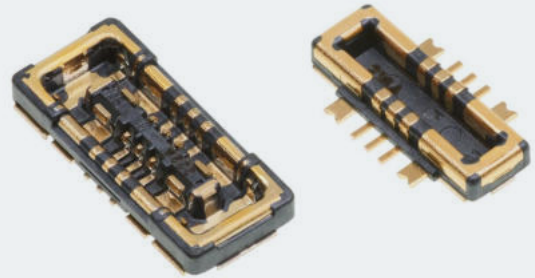
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## ENHANCEMENT

# SlimStack Board-to-Board Battery Connector GCB7V, 0.35mm, 18A

**SERIES**  
220250, 220251



Achieve up to 18.0A of power and electrical reliability in an ultra-compact design with SlimStack Hybrid Power Connectors, designed for battery and other power applications.

As consumers continue to demand smaller devices and bigger current value, the need for microminiature designs grows. Hybrid connectors deliver design flexibility while meeting tight-packaging needs.

## FEATURES

Compact hybrid interface with power and signal contacts

Robustness with full metal cover

Dual-contact design

Delivers up to 18.0A power

Wide alignment area for secure mating

Armor nail prevents damage to housing

## MARKETS



Mobile Devices



Medical Devices

[LEARN MORE](#)





## ENHANCEMENT

# Brad M12 Ultra-Lock 2.0

## SERIES

120400, 120401, 120404, 120406



Since the introduction of the M12 there has been no real cost-effective alternative to the M12. What's more, there has been an increase in sensor and actuator demand due to an exponential increase in data/information. Designed to meet this demand, the Brad M12 Ultra-Lock 2.0 delivers increased productivity and cost savings while surpassing the performance and reliability of traditional threaded connectors. This product delivers high-flex and high-torsion performance, in addition to very reliable IP67 protection. Utilizing push-pull technology, the Brad M12 Ultra-Lock 2.0 offers easy assembly with a mechanical locking device for reliable, secure connections.

Female and male cordsets and receptacles meet the IEC 61076-2-010 standard and provide an easy-to-assemble interface.

## FEATURES

Operator-independent connection

Universal, industry-standard M12 interface

Plastic housing and Zinc die-cast spring carrier

IP67 protection

Weld-slag, oil-resistant (WSOR) cable

## MARKETS



Industrial  
Automation

[LEARN MORE](#)



## ENHANCEMENT

# Loxon Locking Quick Disconnect (QD) Terminals

SERIES  
19439



Loxon Locking Quick Disconnect (QD) Terminals with positive locking help ensure reliable connectivity and prevent loose connections or accidental separation in high-vibration or continuous shock applications.

Tin plating of the terminals after stamping helps prevent corrosion and eliminates un-plated (bare) edges for improved reliability. This product conforms to UL310 standard for optimal safety and performance and is glow-wire capable – meeting most customer requirements for use in harsh environments and white goods.

## FEATURES

Tin plating of terminals after stamping

Conformance to UL 310 standard

Mating to 6.35 by 0.81mm male tabs with hole

Availability with three wire ranges

Housing available with 94V-2 or 94V-0 UL flammability rating and Glow Wire Capable

## MARKETS



Consumer



Commercial  
Vehicle



Telecom  
Infrastructure

LEARN MORE



## ENHANCEMENT

# Squba 3.60mm-Pitch Sealed Wire-To-Wire Connector System Colors

### SERIES

207778, 207781, 207782



Squba 3.60mm-Pitch Sealed Wire-to-Wire Connector Systems are designs that protect against ingress with an IP68-seal rating and carry up to 14.0A of current to deliver reliable power in a wide range of space-constrained applications.

The latest additions to the range include various color options for easy identification and to avoid mis-mating, plus a clip-slot for a panel mounting option.

Colored and keyed connectors options

Protected, low-profile positive latch

Meets the UL 1230 standard

Deliver an IP68-sealed rating

Offer design flexibility for 3, 5, 7 and 9 circuit needs

Weather caps

## MARKETS



Consumer



Commercial  
Vehicle



Industrial  
Automation

[LEARN MORE](#)



## ENHANCEMENT

# Mini-Lock 2.5 - Adding Black color and Glow Wire Versions

### SERIES

51163, 53517, 53426



The 2.50mm-pitch Mini-Lock Wire-to-Board/Wire-to-Wire Connector System offers design versatility with vertical and right-angle SMT headers, and terminal position assurance (TPA) while also providing Glow Wire options for safety and protection in the home appliance market.

## FEATURES

Glow Wire capable

Potting treatment (Height 2.00 to 6.00mm)

Locating Peg (Boss)

Use of popular crimp terminals

Terminal position assurance (TPA)

## MARKETS



Industrial



Consumer



Home  
Appliance



Automotive

LEARN MORE



## ENHANCEMENT

# RAST R-Power Connector Systems

SERIES  
220958, 220330



**RAST Power and R-Power Connector Systems** deliver up to 10.0A, and provide options for design flexibility and secure mating with overall cost savings for manufacturers.

### FEATURES

RAST R-Power: up to 10.0A

Direct and indirect mating

Standard and opposite PCB layout options

Glow-wire, UL, CSA and VDE approved

PCB headers have staggered footprint

Passive latch/internal latch

### MARKETS



Automotive



Appliances

[LEARN MORE](#)



## ENHANCEMENT

# Micro-Lock Plus 1.25mm-Pitch - Adding TPA

### SERIES

214526, 214527, 214528, 214529



Ideal for compact applications, the Micro-Lock Plus 1.25mm-Pitch Connector System provides electrical and mechanical reliability, design flexibility and secure mating retention to overcome challenges in high-temperature designs.

Adding TPA to the 1.25mm-pitch connectors helps ensure that terminals are correctly seated in the connector for a reliable connection.

## FEATURES

Wide positive latch that delivers audible click

A wire-to-wire solution and single and dual rows, 2 to 42 circuits, vertical and horizontal plug configurations

Withstands up to 105°C operating temperature

Dual-contact terminal design

Robust metal solder tab

Potting liquid (up to 6.00mm height)

## MARKETS



Industrial  
Automation



Appliances



Automotive

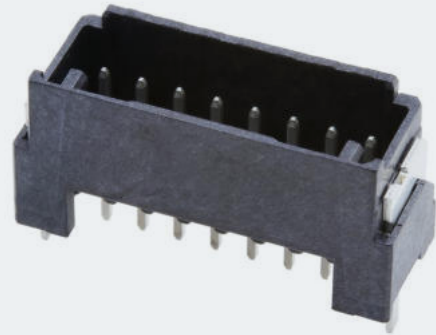
LEARN MORE



## ENHANCEMENT

# Micro-One Through-Hole Connectors

SERIES  
220030, 220029



As the need for contact reliability in compact, harsh-environment applications grows, Molex's Micro-One Through-Hole Connectors provide a robust 2.00mm-pitch solution for components to withstand severe conditions, offering integrated independent secondary lock (ISL), potting capabilities and Glow Wire capable options.

## FEATURES

Offers reduced weight and space savings with low profile design

UL certification helps ensure reliability

Vertical and right-angle headers with 2 to 8 circuit provide design flexibility

Glow Wire capable: Meets the required EU regulations for the home appliance market

## MARKETS



Consumer



Industrial

LEARN MORE



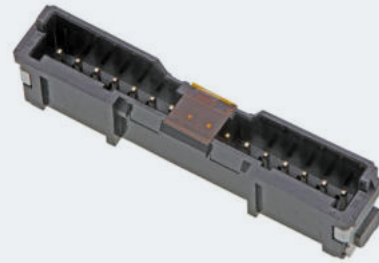


## ENHANCEMENT

# Micro-Lock Plus 2.00-Pitch

### SERIES

5705575, 505578, 505572



Ideal for compact applications, the Micro-Lock Plus Connector System provides electrical and mechanical reliability, excellent space savings and robust solutions in a high-temperature design to meet stringent industry requirements including those in harsh environments.

## FEATURES

Offers design flexibility with a single-row plug in vertical and horizontal configurations, and 2-16 circuits

SMT terminal helps prevent whiskering for a clean and uninterrupted signal

Provides secure PCB retention and strain relief to solder joints with robust metal solder tab

Low-halogen and high-temperature capability withstands harsh environments

Positive lock delivers secure mating retention without sacrificing compactness

Outer lock strengthens lock for more reliable connections

Wide positive latch with an audible click provides secure mating retention and helps ensure proper mating connection

## MARKETS



Datacom



Consumer



Automotive

LEARN MORE



## ENHANCEMENT

# Brad EtherNet/IP CIP Safety HarshIO Modules

SERIES  
112095



Featuring CIP Safety technology, Brad EtherNet/IP CIP Safety HarshIO Modules are IP67 IO modules designed for connecting industrial safety controllers to sensors and actuators in harsh duty environments to permit the durable and reliable automation of safety systems.

## FEATURES

Module is IP67-rated for dust and water resistance, is potted with resin and uses metallic connectors

Conforms to EN 61508 SIL3 and Cat4 PLe according to ISO 13849-1 with a mission time exceeding 20 years

Reduces commissioning time with Ultra-Lock™ M12 push-to-lock technology

Enhances versatility and design flexibility with multiple options available

Meets environmental demands with commercial- and industrial-grade options

Speeds module replacement while eliminating special tools or recommissioning

Permits users to quickly and easily determine status

## MARKETS



Automotive



Industrial  
Automation

LEARN MORE



## ENHANCEMENT

# Micro-Fit+ Single-Row, Wire-to-Wire Connectors

SERIES  
223794



Adding single-row and wire-to-wire plugs to the Micro-Fit+ Connector System allows engineers more design flexibility. These high-current, small connectors now have a single row option for increased space savings that solve space-constrained issues designers face. The new wire-to-wire feature helps engineers overcome design limitations, which gives them additional application options. Micro-Fit+ Connectors also offer 40% reduced mating force for improved design flexibility and increased assembly efficiency.

## FEATURES

Fully isolated contacts on each side of the interface

V-0/Glow Wire combination resin

Enhanced Terminal Position Assurance (TPA) design

Unique keying design prevents mis-mating; different than standard Micro-Fit 3.0

Surface-Mount Technology (SMT) and Through-Hole Technology (THT) headers

Reduced mating force of 40%

## MARKETS



Medical



Sustainable  
Energy



Consumer



Automotive



Telecommunications/  
Networking

LEARN MORE



## EXTENSION

# EXTreme Guardian Plug-Side Overmolded Cable Assemblies

SERIES  
218055



EXTreme Guardian plug-side overmolded cable assemblies, available in multiple circuit sizes and lengths, meet ever expanding power requirements for a range of networking and datacom equipment while providing rugged strain relief at the connector and cable interface.

## FEATURES

Dependable strain relief

2- and 3-circuit options

Polarized mating geometry and locking tang-on terminals

Available in multiple lengths

Capable of carrying 55.0 to 60.0A of current

## MARKETS



Aerospace and  
Defense



Medical



Telecommunication



Automotive



Solar



Data  
Communication

LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) SL Pre-Crimped Leads

**SERIES**  
219680, 219681



SL Pre-Crimped Leads are a new addition to Molex's range of pre-crimped leads offering a simple, cost-effective solution for prototyping, pre-production and mass production requirements.

## FEATURES

Available in 75, 150, 225, 300, 450mm lengths

UL Listed cables (UL 1061, UL 11028)

22, 24, 26, 28 AWG

Pre-crimped and fully tested cables

## MARKETS



Home  
Appliance



MedTech



Telecommunications/  
Networkings



Automotive



Industrial  
Automation

LEARN MORE



## EXTENSION

# Mini-Fit Max Single Row Connectors

## SERIES

212515, 215913, 215915



Transcending mid-power connector products, the Mini-Fit Max wire-to-board connector provides 20.5A of current in a compact package and features a robust tangless terminal design with a TPA capable receptacle. New Single-Row options - now available in circuit sizes 2 to 6.

## FEATURES

94/V-O Glow-wire combination resin

Keying and polarization

Optional TPA with TPA stop

Slim profile design

End-to-end stackable

Four independent points of contact

Tangless terminal

Single-row options

## MARKETS



Telecommunications/  
Networking



Home  
Appliance



Commercial  
Vehicles



Industrial

[LEARN MORE](#)

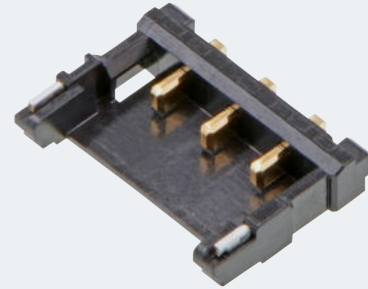


## EXTENSION

# Pico-EZmate 1.80mm High-Current (HC) Wire-to-Board Connectors

## SERIES

208294, 208298, 208299



The latest addition to the Pico-EZmate family are the Pico-EZmate 1.80mm HC Wire-to-Board Connectors offering a high current rating of 5.0A and a compact design for excellent performance in tight-space applications across various industries.

## FEATURES

Low profile and compact size

High current of 5.0A

Reinforced locking force

Polyamide material

Designed for battery connections

Ergonomic mating and unmating in the diagonal direction

## MARKETS



Consumer



Medical



Home  
Appliances



In-Vehicle  
Infotainment



Data Center



Mobile  
Devices

LEARN MORE





## EXTENSION

# Application Tooling

63808, 203702, 213309, 213069, 215786



Representative images

Using the proper interconnect manufacturer's application tooling is essential to meet many of the industry standards and to maintain the connector manufacturer's product warranty.

Molex offers various tools from simple insertion and extraction tools, through to crimp modules and dies. The latest additions to the Molex application tooling range include:

### Hand tools

Hand crimp tools, insertion and extraction tools, and more. Manually powered hand tools for low-volume use or field repair with loose piece packaging formats.

### Applicators

Designed to industry-standard mounting and 135.80mm (5.346") shut height. Easy to set up and simple adjustments to ensure optimal crimps. Compatible with most industry-standard benchtop crimping presses and wire processors for mid-volume crimping solutions. Mechanical and pneumatic feed options are available.

## RESOURCES



Crimping Tools  
Catalog



Datasheets



Important Tooling  
Information

LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) PowerWize Cable Assemblies

SERIES  
221960



OTS PowerWize Cable Assemblies offer complete design flexibility and unique design features to facilitate both prototyping and global preproduction.

PowerWize High-Current Wire-to-Board/Wire-to-Busbar Connectors leverage our Coeur socket technology to ensure low contact resistance, low voltage drop and minimal heat generation at the contact interface.

## FEATURES

Mechanically keyed and color coded with uniquely positioned ribs on header housings and matching slots on receptacles (based on connector color)

Positive locking with active latches on receptacles and barbed geometry on headers

Finger touch-safe headers and receptacles

## MARKETS



Industrial



Data Center



Telecommunications/  
Networking



Test and  
Measurement

LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) PowerWize Pre-Crimped Leads

SERIES  
221960



Molex's range of pre-crimped leads offers a simple, cost-effective solution for prototyping, pre-production and mass production requirements. The PowerWize pre-crimped leads are offered in female-to-female and female-to-pigtail configurations in 600.00mm length.

PowerWize High-Current Wire-to-Board/Wire-to-Busbar Connectors leverage our Coeur socket technology to ensure low contact resistance, low voltage drop and minimal heat generation at the contact interface.

## FEATURES

600mm cable length

UL listed cables (UL 10198)

Pre-crimped and fully tested

Female-female and female-strip configurations

## MARKETS



Industrial



Data Center



Telecommunications/  
Networking



Test and  
Measurement

LEARN MORE



## EXTENSION

# USB Type-C Connectors

## SERIES

221608, 221610, 221632, 218847, 219320



The expanded family of compact USB Type-C Connectors from Molex helps meet the need for standardized high-speed I/O connectors in an increasingly diverse range of applications. USB Type-C Connectors support up to 5.0A of current and 10 Gbps data transfer speeds. They offer waterproof, robust, reliable and reversible connectivity options for consumer, industrial and Internet of Things (IoT) devices as well as other high-speed I/O applications.

New additions to the USB Type-C product line include 16- and 24-circuit connectors meeting USB 2.0 and 3.2 standards. Molex offers customers various configurations, orientations, and mounting options for both plugs and receptacles.

## FEATURES

Up to IPx8 rating

Shorter body design

Supports 5.0A/100W power and up to 10 Gbps data rates

Offers waterproof, robust, reliable connectivity

## MARKETS



Consumer



Aviation



Medical



Automotive



Connected  
Home

LEARN MORE



## EXTENSION

# Premo-Flex FPC 0.50mm-Pitch One-Touch LVDS Jumper Cables with Latching Notches

SERIES  
15026



Premo-Flex FPC One-Touch Low-Voltage Differential Signal (LVDS) Jumper Cables with Latching Notches and 100-Ohm controlled impedance deliver durable and flexible PCB connection solutions, including custom and off-the-shelf options.

## FEATURES

Multiple standard circuit counts

Locking notches

Various off-the-shelf cable lengths

Mating capability with One-Touch FPC Connectors in series 200485-06XX and 200485-07XX\*\* (XX\*\* designates the number of circuits)

Controlled impedance

## MARKETS



Consumer



Home  
Appliance



Medical



Automotive



Data/  
Computing



Industrial

LEARN MORE



## EXTENSION

# EXTreme Ten60 High-Power Connectors, Split-power

## SERIES

171088, 171089, 171090



Designed for configurable power connections with flexibility for voltage creepage and clearance requirements, EXTreme Ten60 High-Power Connectors offer custom connector layouts and standard blade options to streamline designs in various applications.

## FEATURES

Top or side guides

Low-profile design (10.00mm)

Configurable with dovetail design

Press fit or solder tail

Blade and signal length options

PCB polarizing pegs

## MARKETS



Data  
Communications



Telecommunications/  
Networking



Consumer  
Electronics



Electric  
Vehicles

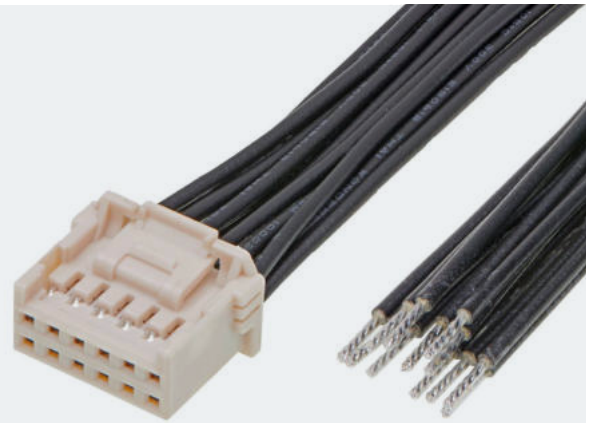
LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) iGrid Cable Assemblies

SERIES  
221955, 221956



iGrid Cable Assemblies deliver off the shelf (OTS) solutions with pin-to-pin mapping from receptacle to PCB header and meet current cable assembly industry standards. Provides ready to use, plug and play connections; ensures high quality and meets current automotive industry standards. Available in a variety of cable lengths to facilitate both prototyping and global production.

## FEATURES

UL 10002 Discrete Wires

Meet 2011/65/EU RoHS Compliance

Pin-to-Pin mapping from receptacle to PCB header

Meet current cable assembly industry standards

Custom assemblies for production also available

## MARKETS



Data/  
Computing



Consumer



Industrial



Automotive

LEARN MORE





## EXTENSION

# Off-the-Shelf (OTS) CLIK-Mate 2.0 Cable Assemblies

**SERIES**  
221958, 221959



CLIK-Mate Discrete Wire Cable Assemblies deliver off-the-shelf (OTS) solutions and a variety of cable lengths to facilitate both prototyping and global production.

## FEATURES

UL 1061 discrete wires

Meet 2011/65/EU RoHS Compliance

Assembled in ISO/TS16949-certified facilities

Pin-to-pin mapping from receptacle to PCB header

## MARKETS



Consumer



Commercial  
Vehicle



Medical

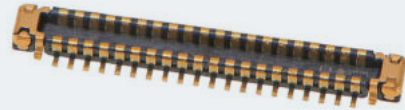
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## EXTENSION

# SlimStack Board-to-Board Connector ACB6+, 40Ckt

SERIES  
216701



SlimStack Board-to-Board Connectors, 0.35mm-Pitch, 0.60mm-Height, Full-Armor ACB6+ Series, deliver excellent performance with up to 5.0A power-nail, full-armor housing protection. Together with mating guidance and electrical contact assurance, SlimStack offers superior reliability in challenging applications.

## FEATURES

Power nail structure enables power delivery up to 5.0A

Full armor design that wraps connector from inside and outside

Wide alignment area

Contact area separated from solder area; terminal and nail are separated with a Nickel barrier

Gold flash on the top surface of the plug nail and contact terminal helps prevent solder wicking and interference

Distance between nail and signal contact helps prevent short circuits

## MARKETS



Consumer



Defense



Medical Devices

LEARN MORE



## EXTENSION

# Sentrality High-Current Pin and Socket Interconnect System

Now Available in 3.4mm, 6mm, 8mm and 11mm

## SERIES

204313, 204316, 212194, 212195,  
213680, 213780, 213880, 213953



Molex's Sentrality High-Current Pin and Socket Interconnect System offers high-current board-to-board, busbar-to-board and busbar-to-busbar connectors and provides a +/- 1.00mm radial self-alignment to overcome tolerance stack-up issues.

## FEATURES

Low contact resistance

Compact conical socket design

Self-aligning sockets float between wave springs

The eye-of-needle sockets and the surface-mount sockets attach to printed circuit boards; the knurled press-fit sockets attach to busbars

Top-entry socket assemblies and bottom-entry socket assemblies

Knurled press-fit pins and screw-mount pins packed in trays

Surface-mount sockets with pick-and-place caps are packed in tape-and-reel arrangements

Socket assembly's flange can be positioned anywhere along the side of the part

## MARKETS



Telecommunications/  
Networking



Industrial  
Automation



Data  
Center

LEARN MORE



## EXTENSION

# Optical Splice Protection Sleeves

SERIES  
106920



As the number of fiber-to-home applications grow there is increased market demand for optical splice protection. Furthermore, customers require high performance after splicing in order to avoid bending or breakage of fibers. The Optical Splice Protection Sleeves use good quality materials and full fuse function, with inner-sleeve ethylene vinyl acetate to provide a moisture-resistant barrier after shrinkage and afford fusion splice protection in field fiber splicing assembly, manufacturing and optical fiber closure applications. These products are optimally positioned to help solve capacity shortages for splice sleeves resulting from increased demand.

## FEATURES

**Stainless Steel Rod as a Tension Member**  
Provides additional rigidity to prevent bending or breakage of fiber

**Full Fusion Splicing**  
Provides full fusion protection after shrinkage

## MARKETS



Consumer



Telecom



Defense

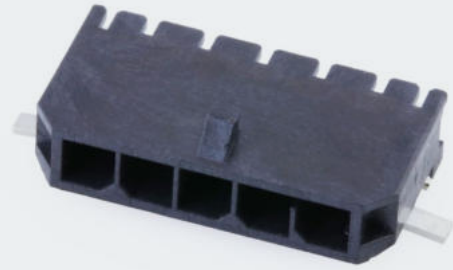
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## EXTENSION

# Micro-Fit+ Connector, SMT Header Assemblies - Extended sizes

**SERIES**  
218989, 218216



The Micro-Fit+ Connector System offers a 3.00mm pitch, a high current rating of 13.0A and superior design options for flexibility and efficient assembly.

## FEATURES

Fully isolated contacts on each side of the interface

Reduced mating force by 40%

Unique keying design

Fully polarized housings

V-0/Glow Wire combination resin

Smaller PCB footprint

## MARKETS



**Sustainable  
Energy**



**Telecommunications/  
Networking**



**Consumer**



**Medical**



**Automotive**

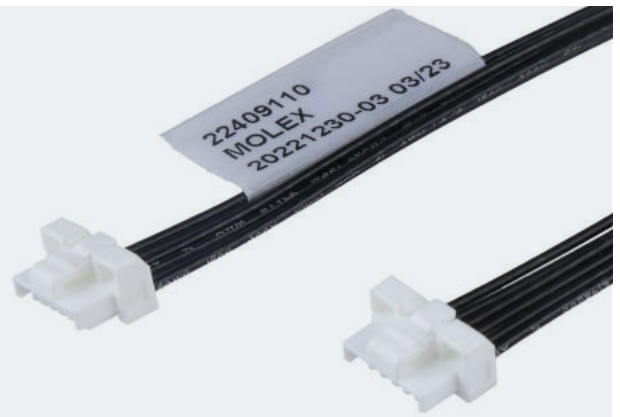
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## EXTENSION

# Off-the-Shelf (OTS) CLIK-Mate 1.25 Cable Assemblies

SERIES  
224091, 224092



CLIK-Mate Discrete Wire Cable Assemblies deliver off-the-shelf (OTS) solutions and a variety of cable lengths to facilitate both prototyping and global production.

The CLIK-Mate 1.25 Cable Assembly carries 1.0A with a 1.25mm pitch offering more signal lines in less space.

## FEATURES

Offers more signal lines in less space

Ready to use in electronic appliance applications - provides ease of design, prototyping and production

Decreases engineering time and resources

Provides ready-to-use, plug-and-play connections

## MARKETS



Consumer



Commercial  
Vehicle



Medical

LEARN MORE



## EXTENSION

# MX150 Hybrid Sealed Connector System, adding Hybrid Mat-Sealed Blade Connectors

### SERIES

160077, 160079, 160081



Molex's MX150 Hybrid Sealed Connector System offers outstanding flexibility and space savings by integrating 1.50, 2.80 and 6.30mm terminals into one package for a complete solution.

## FEATURES

Mat seal technology for MX150 (1.50mm) terminals

Connector position assurance (CPA) option available

Preassembled terminal position assurance (TPA) housing

Four key options available

One-piece 3.50mm-pitch housing

## MARKETS



Automotive



Commercial Vehicle



Industrial Automation

[LEARN MORE](#)





## EXTENSION

# Premo-Flex (FFC) Ultra-Flexible Cable Jumpers

SERIES  
15120



### Adding Series 15120 - 0.50mm Pitch, Gold-Plated

The versatile Premo-Flex solution now includes the new 15120 series with gold plating, a 0.50mm pitch and a 0.35A current rating, to deliver 2.5M flex life cycles in a variety of applications.

Premo-Flex Flat-Flexible Cable (FFC) Ultra-Flexible Cable Jumpers deliver durable and ultra-flexible PCB connection solutions with an extensive range of custom and off-the-shelf options. These jumpers enable designers to maximize PCB space, reduce component costs and provide devices with reliable board-to-board connections.

## FEATURES

Enables versatile configurations

Terminates to fully mate with a wide range of Molex Easy-On connectors

Permits use in a variety of applications

Product offerings range from 50,000 to 2.5 million flex life cycles

Includes off-the-shelf options for faster time to market

## MARKETS



Consumer



Datacom



Medical



Automotive



Industrial

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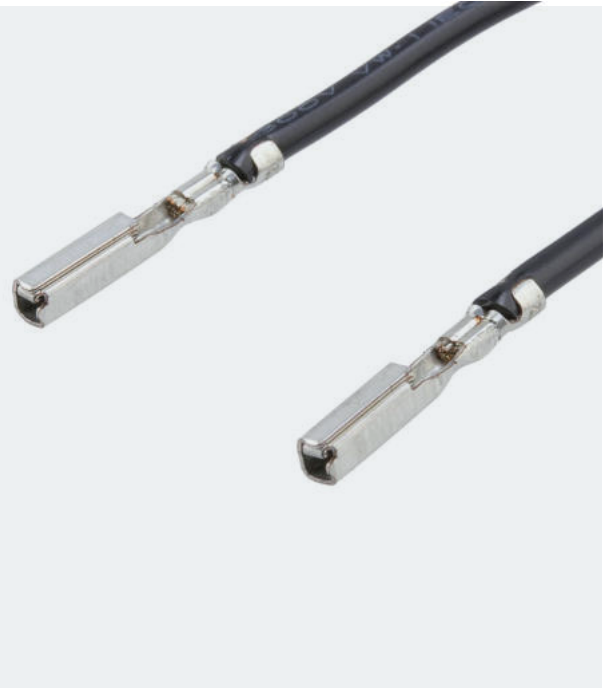


## EXTENSION

# Off-the-Shelf (OTS) MX64 Pre-crimped Leads

## SERIES

224540, 224541, 224563,  
224564, 224565, 224566



Molex's range of pre-crimped leads offers a simple, cost-effective solution for prototyping, pre-production and mass production requirements.

The MX64 Pre-crimped leads are offered in female-to-female configurations and lengths of 150, 300 and 450mm.

## FEATURES

Offers secure terminal retention and superior reliability

Eliminates the need for individual wire seal, improving production time and ruggedness

Supports US and offshore wire requirements

Locks terminals in place and prevents terminal backouts for secure connections

Eliminates mating and assembly errors Color-coded to correspond to polarity

Facilitates secure mating

## MARKETS



Automotive

[LEARN MORE](#)



## EXTENSION

# Off-the-Shelf (OTS) Mini-Fit Versa Cable Assemblies

SERIES  
224094, 224095



OTS Mini-Fit Versa Assemblies offer complete design flexibility and unique design features to facilitate both prototyping and global preproduction.

Panel mount and vertical header options available in 4 circuit sizes (2,4,6,8ckt) and 3 pitch sizes (150, 300 & 600mm).

## FEATURES

Maintains current rating through application surfaces or panels

Reduces the cost of materials and labor, and allows customers to meet the European standard for electrical requirements

Provides superior retention

## MARKETS



Industrial



Consumer



MedTech



Automotive

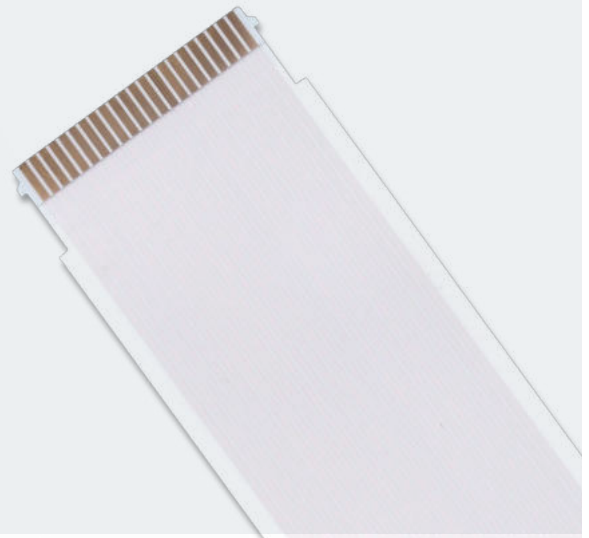
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## EXTENSION

# Premo-Flex FFC Superior Retention Cable Jumpers

SERIES  
15019, 15467



Adding: 1.00mm-pitch FFC jumpers with latching ears

Premo-Flex Flat-Flexible Cable (FFC) Superior Retention Cable Jumpers deliver robust and secure PCB connection solutions with an extensive range of custom and off-the-shelf options. These jumpers enable designers to ensure reliable connectivity in high-vibration or high-shock environments for a variety of applications.

## FEATURES

Enables secure connectivity in high-vibration and high shock environments

Terminates to full mate with a wide range of Molex Easy-On connectors

Permits use in a variety of applications

Includes off-the-shelf options for faster time to market

## MARKETS



Datacom



Automotive



Medical



Consumer



Industrial

LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) MicroTPA 2.00mm Cable Assemblies

**SERIES**  
224482, 224483



Ideal for compact applications, the MicroTPA 2.00mm Wire-to-Board and Wire-to-Wire Connector System provides electrical and mechanical reliability in a high-temperature design that meets a diverse range of industry requirements.

OTS MicroTPA Cable Assemblies deliver an off-the-shelf (OTS) solution in a variety of cable lengths to facilitate both prototyping and global production.

## FEATURES

Meets current cable assembly industry standards

Meets 2011/65/EU RoHS Compliance

UL 10002 Discrete wires

Pin-to-Pin mapping from receptacle to PCB header

## MARKETS



Appliances



Automotive

LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) Stac64 Pre-Crimped Leads

## SERIES

224451, 224452, 224572



The Stac64 is stackable connection system that provides single and multi-pocket PCB solutions. It offers a diverse range of circuit sizes and greatly reduces time-to-market by eliminating the need for custom tooling.

The Stac64 is now offered as part of the Molex range of pre-crimped leads, offering a simple, cost-effective solution for prototyping, pre-production and mass production requirements.

## FEATURES

150, 300, 450mm cable lengths

Female-to-female configurations

18, 20 Wire Gauge (AWG)

Wire/Cable Type: FLRYW

## MARKETS



Automotive

[LEARN MORE](#)



## EXTENSION

# Off-the-Shelf (OTS) SW1 Cable Assemblies

### SERIES

224355, 224356, 224357, 224411,  
224412, 224413, 224414, 224415,  
224416



Off-the-Shelf (OTS) SW1 Cable Assemblies deliver solutions with a broad offering of Molex connectors and incorporate COEUR socket technology which enables a high-current-carrying capacity in three sizes: 6.00mm (120.0A), 8.00mm (185.0A) and 11.00mm (300.0A) with a unique positive-locking design for secure mating.

## FEATURES

Reliable crimp geometry with high-quality 8-sided crimp profile

Positive-locking stainless steel spring clips

Color-coded receptacle housings

Meets 2011/65/EU RoHS Compliance

UL 10002 Discrete wires

## MARKETS



Energy  
Storage



Industrial  
Automation

LEARN MORE



## EXTENSION

# Off-the-shelf (OTS) Mini-Fit Max Pre-Crimped Leads

**SERIES**  
224087, 224088



Molex's range of pre-crimped leads offers a simple, cost-effective solution for prototyping, pre-production and mass production requirements. Mini-Fit Max leads are offered in female-to-female configurations in lengths of 150, 300 and 450mm.

## FEATURES

150, 300, 450mm cable lengths

Female-to-female configurations

2.00 Wire Gauge (AWG)

Wire/Cable Type: UL1569

## MARKETS



Industrial



Home  
Appliance



Commercial  
Vehicle



Telecommunications/  
Networking

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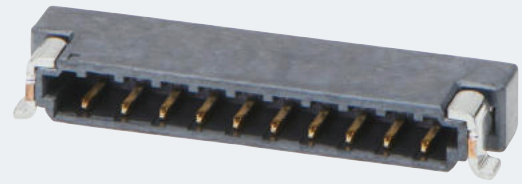




## EXTENSION

# Zero-Hachi 0.80mm Pitch Wire-to-Board Connector System - Adding Gold (Au) Plating

SERIES  
214720, 214721



The Zero-Hachi connector's fine pitch, low-profile height and extensive circuit size range address the concerns of shrinking electronic device space across industries, while the feature enhances electrical reliability during operation.

Now available in Gold (Au) plating version providing higher electrical performance with robustness.

## FEATURES

Fitting nail

Dual-point contact design

Low-profile height (1.60mm)

Easy-to-grip design feature

'Checking-mark' feature on crimp housing

Friction lock on crimp housing

## MARKETS



Industrial  
Automation



Mobile Devices



Home Appliance

LEARN MORE



## EXTENSION

# Solderless RF/Microwave PCB Connectors

**SERIES**  
**73387, 73157, 73164**



**Solderless RF/Microwave PCB Connectors from Molex offer a reusable, compact and easy-to-install radio frequency connection to the PCB or microstrip for high-density, high-precision test and measurement applications.**

## FEATURES

Solderless installation method permits easy removal and reuse

Screw attachment method simplifies installation and removal on edge of PCB

Narrow-block compact design requires a smaller footprint

Center contact parallel to the signal trace enhances electrical performance

Enhanced flexibility with a range of size and frequency options

## MARKETS



**Telecommunications/  
Networking**

[LEARN MORE](#)



## EXTENSION

# Micro-Fit + Versa Connectors

### SERIES

212528, 224246, 206461, 215922,  
215759, 216571, 215760



Micro-Fit + Versa Connectors provide a 3.00mm pitch for space-constrained applications and offer a variety of design options, including polarization and four colors with different keying per color to avoid mis-mating, and help ensure operational safety and efficient assembly.

## FEATURES

Withstands high-vibration environments

Four new color-keyed options added to the existing black color, offering a total of 4 different polarizations

Glow Wire capable: Meets the required EU regulations for the home appliance market

Through-hole technology (THT) headers, plug and receptacle

Unique keying design offers easier identification and increased safety

## MARKETS



Automotive



Medical



Telecommunications/  
Networking



Consumer

LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) Zero-Hachi Pre-Crimped Leads

SERIES  
219672, 219673



Molex's range of pre-crimped leads offers a simple, cost-effective solution for prototyping, pre-production and mass production requirements. Zero-Hachi Pre-Crimped Leads are offered in female-to-female and female-to-pigtail configurations in lengths of 150, 300 and 450mm.

The Zero-Hachi connector's fine pitch, low-profile height and extensive circuit size range address the concerns of shrinking electronic device space across industries. The connector's dual-point contact feature enhances electrical reliability during operation.

## FEATURES

Leads crimped on both ends: Suitable for wire-to-wire applications and when cut in half wire-to-board applications

Connector A: Female; Connector B: Female, Strip and Tin

150, 300, 450mm cable lengths

28, 30 Wire Size (AWG)

Wire/Cable Type: 10064

## MARKETS



Home  
Appliance



Industrial  
Automation



Mobile Device

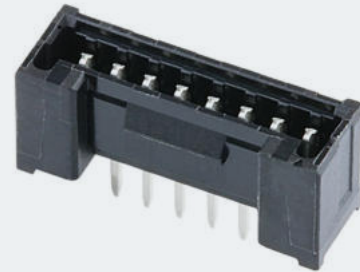
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## EXTENSION

# Micro-Lock Plus 1.25mm-Pitch Connector

**SERIES**  
220097, 220098



Ideal for compact applications, the Micro-Lock Plus 1.25mm-Pitch Connector System provides electrical and mechanical reliability, design flexibility and secure mating retention to overcome challenges in high-temperature designs. Now available with vertical and right angle Through-Hole header housing options.

The Micro-Lock Plus is the only 1.25mm pitch through-hole housing with positive locking features. This housing provides a boss for guided mounting, and, even without a nail, keeps the product size small while providing the same locking strength to Surface-Mount types.

## FEATURES

Provides secure mating retention; ensures proper mating

Strengthens lock for more reliable connection with outer lock for single-row version to secure mating retention

Meets other industry standards for harsh environments by withstanding up to 105°C operating temperatures

Offers additional design flexibility in a smaller size

Offers secure contact and terminal retention (can use existing mating parts)

Reduces assembly error that results in terminal back-outs

## MARKETS



Home  
Appliance



Industrial  
Automation



Automotive

LEARN MORE



## EXTENSION

# Off-the-Shelf (OTS) KK Plus 250 Discrete Wire Cable Assemblies

SERIES  
224089, 224090



The KK Plus 250 Cable Assembly offers a 2.50mm pitch and is available in a variety of cable lengths. OTS Discrete Wire Cable Assemblies were designed with the largest wire gauge that connectors can accommodate to meet any prototype requirement on the market. Discrete Cables reduce engineering (mechanical and electrical) and purchasing time needed to qualify a cable. In addition, they are crimped in an automated press eliminating the risk of poor crimping during prototyping. These cables are great for prototyping all the way into mass production.

## FEATURES

2.50mm pitch

150, 300, 600mm cable lengths

## MARKETS



Industrial  
Automation



Automotive



Home  
Appliance



Telecommunications/  
Networking

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## EXTENSION

# Off-the-Shelf (OTS) Mini-Fit Max Cable Assemblies

SERIES  
224085, 224086



Mini-Fit Max Cable Assemblies offer a 4.20mm pitch and are available in a variety of cable lengths. These cable assemblies support compact and high-power application demands for adaptable performance and long-term reliability. Off-the-Shelf (OTS) Discrete Wire Cable Assemblies were designed with the largest wire gauge that connectors can accommodate to meet any prototype requirement on the market. Discrete cables reduce engineering (mechanical and electrical) and purchasing time needed to qualify a cable. In addition, they are crimped in an automated press - eliminating the risk of poor crimping during prototyping, all the way into mass production.

## FEATURES

4.20mm pitch

Available in 2, 4, 6, 8, 10 circuits

150, 300, 600mm cable lengths

Dual-row

## MARKETS



Telecommunications/  
Networking



Industrial



Home  
Appliance



Commercial  
Vehicle

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## EXTENSION

# Off-the-Shelf (OTS) Micro-Fit+ Pre-Crimped Leads

**SERIES**  
**36769**



Molex's range of pre-crimped leads offers a simple, cost-effective solution for prototyping, pre-production and mass production requirements. Micro-Fit+ pre-crimped leads are offered in female and male configurations in lengths of 300.00mm.

## FEATURES

300mm cable length

16, 20, 24 Wire Size (AWG)

Connector A: Female, Male, Connector B: Strip and Tin

Cable/Wire Type: UL 1061 (16AWG), UL 11028, (20AWG, 24AWG)

## MARKETS



Consumer



Sustainable  
Energy



Telecommunications/  
Networking



MedTech

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## EXTENSION

# PowerWize BMI High Current Panel-to-Board/ Busbar Interconnects

## SERIES

215510, 215511, 215513



PowerWize BMI (Blind Mate Interface) High-Current Panel-to-Board/Busbar Interconnects incorporate Molex's COEUR socket technology, which helps ensure low contact resistance at the mating interface to minimize heat generation and enable high current-carrying capacity.

## FEATURES

Blind-mating/Self-aligning Connectors

Optimal current-carrying capacity with multiple contact beams

Screw-mount pins attached to both printed circuit boards and busbars; solder tail pins attached to printed circuit boards

User-friendly cable assembly build

Field installable battery-powered applicators

Reliable crimp geometry eight-sided crimp profile

## MARKETS



Telecommunications/  
Networking



Data Center



Electrical Vehicle  
Charging Stations

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# Q1 2024 NPI Pipeline

INNOVATION			
Product Category	Product Name	Product Highlights	Target Market
Card Edge Connectors	Mini Cool Edge (MCIO)	Compared with other I/O product families, Mini Cool Edge (MCIO) I/O connectors and cable assemblies offer increased flexibility by providing multiple circuit options. MCIO connectors and cables were designed specially to be used across many applications. They meet PCIe standards up to PCIe Generation 6 with high-speed data transmission rates. Reliable product quality enables high-volume purchasing for enterprise servers or storage data center customers who expect to transmit data to external device systems across a multitude of protocols.	<ul style="list-style-type: none"><li>• Data Center Solutions</li><li>• Telecommunications/ Networking</li></ul>
High Speed IO	Multi Trak IO Connectors	These connectors meet PCIe Gen 6 data transmission rates and offer a slim form factor with 0.6mm pitch connectors, providing greater flexibility in system design.	<ul style="list-style-type: none"><li>• Data Center Solutions</li><li>• Telecommunications/ Networking/ AI Solutions</li></ul>
High Speed IO	NextStream PCIe Gen 6	Designed to meet PCIe Generation 6 data transmission standards, with faster data transmission speeds and improved SI performance over long distances in data center applications.	<ul style="list-style-type: none"><li>• Data Center Solutions, Server Storage</li><li>• Telecommunications/ Networking</li><li>• Connected Home</li></ul>
RF Connectors and Cable Assemblies	Cardinal Test	Cardinal Test HF Cable Assemblies offer frequencies up to 110 GHz, which is ideal for test and measurement environments. They feature N, SMA, 3.5mm, 2.92mm, 2.4mm, 1.85mm and 1.0mm interfaces for design flexibility with standard 12", 24" and 36" length options. Custom lengths and configurations are also available for various design alternatives.	<ul style="list-style-type: none"><li>• Telecommunications/ Networking</li></ul>
Optical Solutions	Expanded Beam Optical (EBO) Cable Assemblies	Expanded Beam Optical (EBO) Interconnect Solutions deliver high-performance, low-maintenance, reliable and scalable fiber connectivity for tomorrow's data centers.	<ul style="list-style-type: none"><li>• Telecommunications/ Networking</li></ul>
Automotive and Sealed PCB/Wire Connectors	MX-DaSH Wire-to-Wire	Multiple options provide compact, hybrid connectivity for a range of automotive applications needing high-speed signal transmission for both in-cable and zonal architecture applications. For example, the wire-to-device solution combines 14 signal connectors in one providing compact connectivity to ECU controllers/computers.	<ul style="list-style-type: none"><li>• Automotive</li><li>• Commercial Vehicles</li></ul>
Automotive and Sealed PCB/Wire Connectors	MX150 Mid-Voltage	The MX150 portfolio has been upgraded to handle operating voltages of up to 60V for mid-voltage applications.	<ul style="list-style-type: none"><li>• Automotive</li><li>• Commercial Vehicles</li><li>• Recreational Vehicles</li></ul>

## ENHANCEMENT

Product Category	Product Name	Product Highlights	Target Market
Wire-to-Board Connectors	Nano-Fit BMI	Prevents damage to the connector or terminals by avoiding misalignment; decreases assembly time and mis-mating errors.	<ul style="list-style-type: none"> <li>• Consumer</li> <li>• Automotive</li> </ul>
Fiber Optic Cable Assemblies	QSFP-DD 16F Cable Assemblies	QSFP-DD 16F Cable Assemblies are designed to unleash 16-fiber high-speed capabilities tailored for the future of data centers, networking and a wide array of transceiver applications. These cable assemblies come equipped with jumpers and breakouts, empowering 16F systems to achieve ground breaking performance with data rates of 400G, 800G and 1TB+.	<ul style="list-style-type: none"> <li>• Server and Storage</li> <li>• Telecommunications</li> </ul>

## EXTENSION

Product Category	Product Name	Target Market
IO Connectors	HDMI V2.1 Connector	<ul style="list-style-type: none"> <li>• Data Centers Solutions</li> <li>• Telecommunications/Networking</li> </ul>
Connector	Mini-Fit Versa OTS Cable Assembly	<ul style="list-style-type: none"> <li>• Data Centers Solutions</li> <li>• Telecommunications/ Networking/ AI Solutions</li> </ul>
Connectors	Mini50 Unsealed OTS Cable Assy	<ul style="list-style-type: none"> <li>• Data Centers Solutions, Server Storage</li> <li>• Telecommunications/ Networking</li> <li>• Connected Home</li> </ul>
Connectors	Brad M12 H-Splitter	<ul style="list-style-type: none"> <li>• Telecommunications/ Networking</li> </ul>
Industrial Automation	Brad M29 4P and 7P	<ul style="list-style-type: none"> <li>• Telecommunications/ Networking</li> </ul>
Industrial Automation	Mini-Change H-Connector	<ul style="list-style-type: none"> <li>• Automotive</li> <li>• Commercial Vehicles</li> </ul>
Industrial Automation	Brad M12 Ultra-Lock 2.0 Shielded	<ul style="list-style-type: none"> <li>• Automotive</li> <li>• Commercial Vehicles</li> <li>• Recreational Vehicles</li> </ul>
Flat Flexible Cable	Premo-Flex 15025 0.40 mm (Superior Retention)	<ul style="list-style-type: none"> <li>• Home Appliance</li> <li>• Automotive</li> <li>• Industrial Automation</li> <li>• Networking</li> <li>• MedTech</li> <li>• Mobile Devices</li> </ul>

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